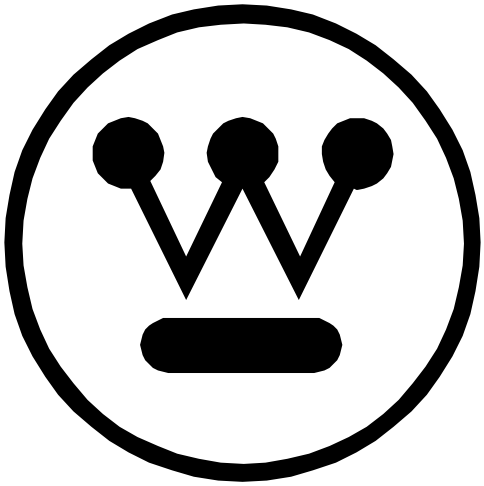

Westinghouse Digital 2004

30" Wide-Format LCD-TV

User's Manual

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Preface

This manual is designed to assist you in setting up and using your LCD-TV. Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. This document contains proprietary information protected by copyright. All rights are reserved. No part of this manual may be reproduced by any mechanical, electronic or other means, in any form, without prior written permission of Westinghouse Digital Electronics.

Read and follow the **Important Safety Instructions** and **FCC Statement** located in the Appendix.

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Introduction

Thank you and congratulations!

This user guide is divided into two parts: an Installation Guide and a Reference Guide. The first time you setup and use this LCD-TV, please follow the instructions in the Installation Guide. To fully explore the abilities and individual features of this LCD-TV, a Reference Guide follows this Installstion Guide.

Features

This LCD-TV is HD-ready and requires an external high-definition source device that is not included with this product.

- Features (typical):
  - Dual cable-ready NTSC TV tuner
  - Built-in 3D comb filter
  - Built-in progressive scan de-interlacing
  - HDTV, ATSC, NTSC, PC, VESA: 720p, 1080i, 480p, 480i, VGA, SVGA, XGA, SXGA
  - and WXGA compatible
  - PIP, a variety of picture-in-picture and multiple picture arrangements
  - Stereo speakers (8W/channel)
  - Wireless remote control with direct source buttons
  - Thin timeless styling, optional wall mount
- Connectors (typical):
  - VGA and DVI inputs with HDCP
  - 2 Component Video: YPbPr (HD) & YCbCr (SD) inputs
  - S-Video, Video and RF NTSC inputs
  - 5 separate stereo audio inputs: 4+1 (AV+PC)
  - 1 audio output for external 5.1 surround sound processor
  - 1 subwoofer output for 2.1 sound
- Performance (typical)
  - High (1280 x 768) native resolution for PC & HDTV
  - Wide 170 viewing angle
  - Bright 500nit display
  - High 500:1 contrast
  - Fast 16ms response time
  - Outstanding 75-110% NTSC 24bit color gamut

Installation Guide

You will soon be enjoying your LCD-TV. The following are instructions on what parts to expect to find within the box, how to connect your LCD-TV and how to use your remote to setup and configure basic options.

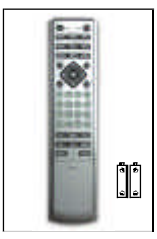
Unpacking

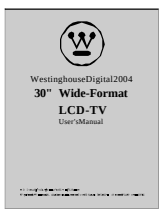
To open the shipping box, stand the box upright and locate the two white plastic clips on the lower left and right ends of the box. Remove this clip by reaching behind the plastic door and unlatching the clasp on the top edge of the clip. The entire plastic clip should come out easily. Lift the top half of the box off of the LCD-TV.

Carefully remove the LCD-TV and other contents from the box. Place the LCD-TV in a safe upright position with easy access to the connectors located on the rear of the display.

Please confirm the following list of items is included:

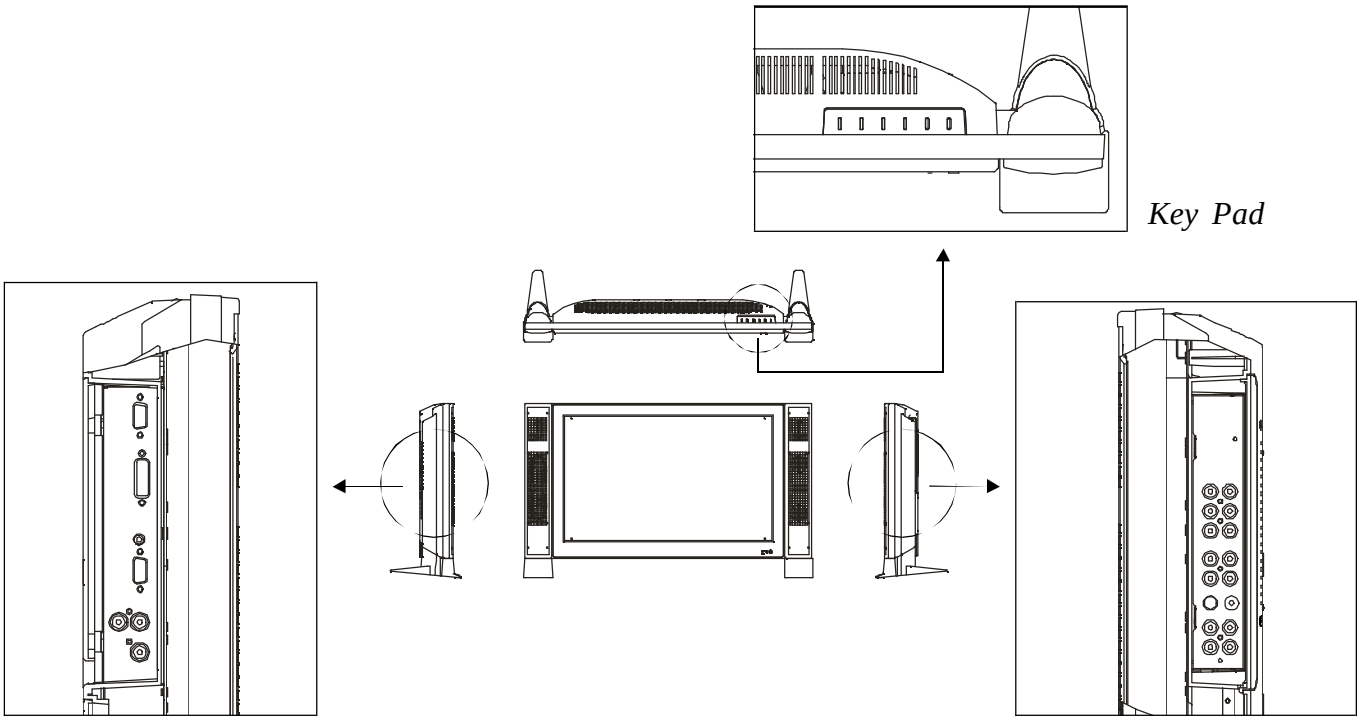
- LCD-TV w/ attached table stand
- Remote control
- 2 AAA batteries
- AC Power cord
- VGA cable (analog RGB). This has a large blue connector on each end.
- AV cable. (The Yellow connector is for video, the white connector is for left audio channel and the red connector is for the right audio channel.)
- Dust covers (for wall mounting)
- Documentation





Connections

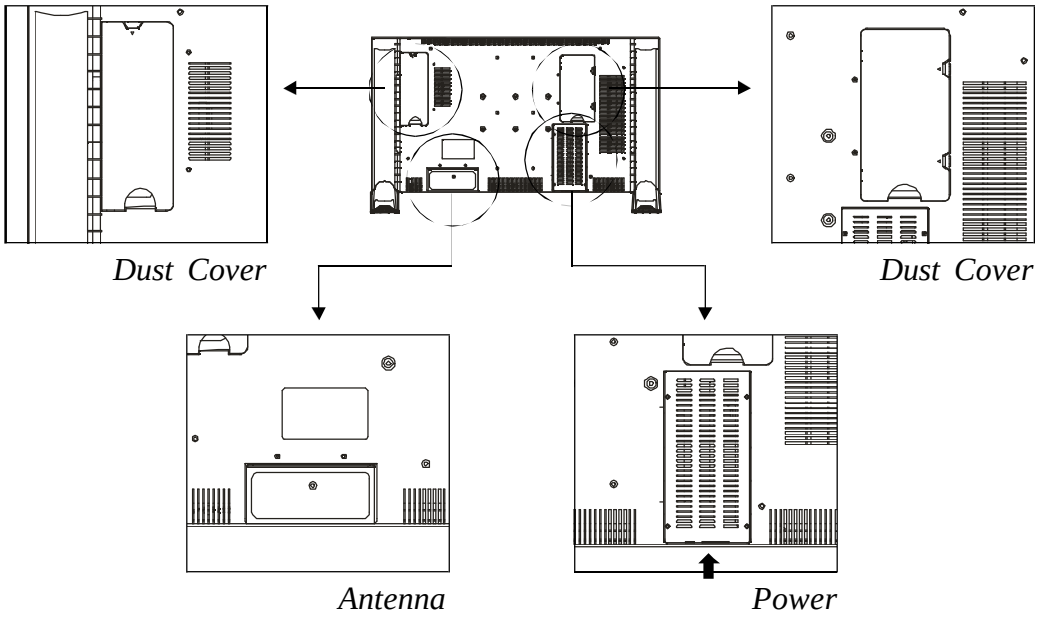
There are 4 separate locations for connectors on the rear of the LCD-TV: Antenna, Video, PC and Power.



Key Pad

PC Connectors

Video Connectors



Dust Cover

Dust Cover

Antenna

Power

There are two user accessible covers that can be removed (without tools) by gently squeezing the plastic clip. Carefully remove both covers to expose the PC and AV connections. Replace these covers as desired.

Planning Your Connections

Below is a table of some common configurations that may help you to determine how best to connect your particular devices.

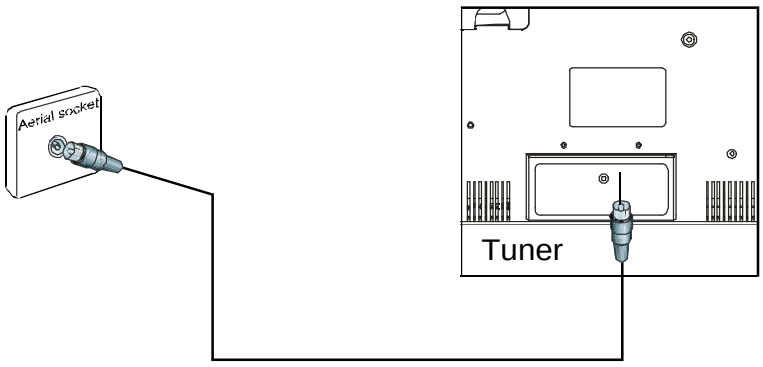
LCD-TV	Good	Better	Best	Your devices
DVI in			PC	
VGA in	PC	HD cable/sat Receiver		
PC Audio in	PC audio	HD audio	PC audio	
HDTV in 480p, 1080i, 720p only		Progressive DVD	HD cable/sat Receiver	
YCbCr in 480i only	DVD Player	Game console	DVD Recorder	
S-Video in	Cable/Set		Game console	
Video in	Game console	VCR		
Antenna in	VCR	Antenna	Antenna	
Audio Out			Surround Sound	
Subwoofer Out		Subwoofer		

To share an input or reduce the number of wires to the display, use a VCR or AV Receiver to consolidate connections. It is common to route the output of your camcorder, cable box (STB), satellite receiver (IRD) and personal video recorder (PVR) through your VCR for recording, editing and time shifting.

Not all devices are the same and many may need additional cables, adapters and setup. In particular, computers, game consoles, high-definition receivers and progressive DVD players must be set accordingly.

Antenna Connection

This LCD-TV has a built-in cable-ready NTSC tuner for analog cable and NTSC broadcast singnals. You may choose to connect the analog cable or TV antenna wire (not included) directly to this LCD-TV antenna input.



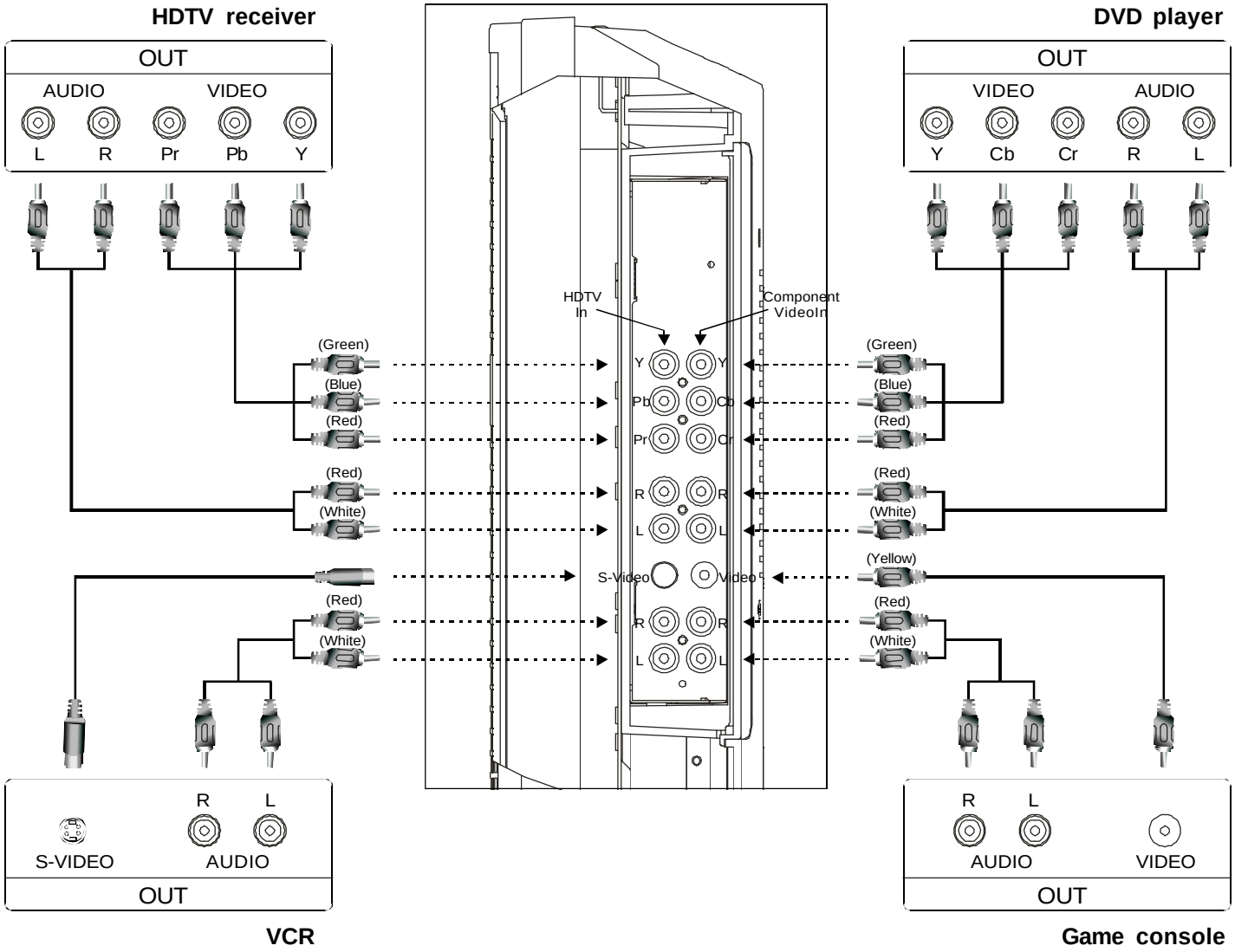
Video Connections

There are four types of video inputs: HDTV (480p, 1080i, 720p only), YCbCr (480i only), S-Video and Video. Each of these video inputs has a corresponding set of stereo left and right audio inputs. These connectors are color-coded to match the colors of the corresponding connectors on other devices and cables.

The HDTV input will only accept 480p, 1080i and 720p signals. Use this to connect high definition devices such as a terrestrial HDTV receiver, HD satellite box, HD cable box or progressive scan DVD player.

The YCbCr (480i only) input will only accept **NTSC signals**. Use this to obtain better color performance from devices such as a DVD player. The built-in **progressive** scan logic will automatically convert interlaced DVD to non-interlaced.

The S-Video and Video inputs are provided for use with devices such as a VCR, satellite receiver, digital cable box, or game console. The built-in **progressive** scan logic will also automatically convert these interlaced NTSC signals to non-interlaced.



PC & Audio Output Connections

There are two PC inputs: DVI, VGA and one PC audio input. There is also an audio output and a subwoofer output.

The DVI input (or more specifically DVI-D input) is a digital interface that requires the computer to have a corresponding DVI or DFP output. Using this interface provides a superior on screen image when the PC output is set to the full native resolution of the LCD panel. Neither a DVI cable nor DFP adapter is included and must be purchased separately.

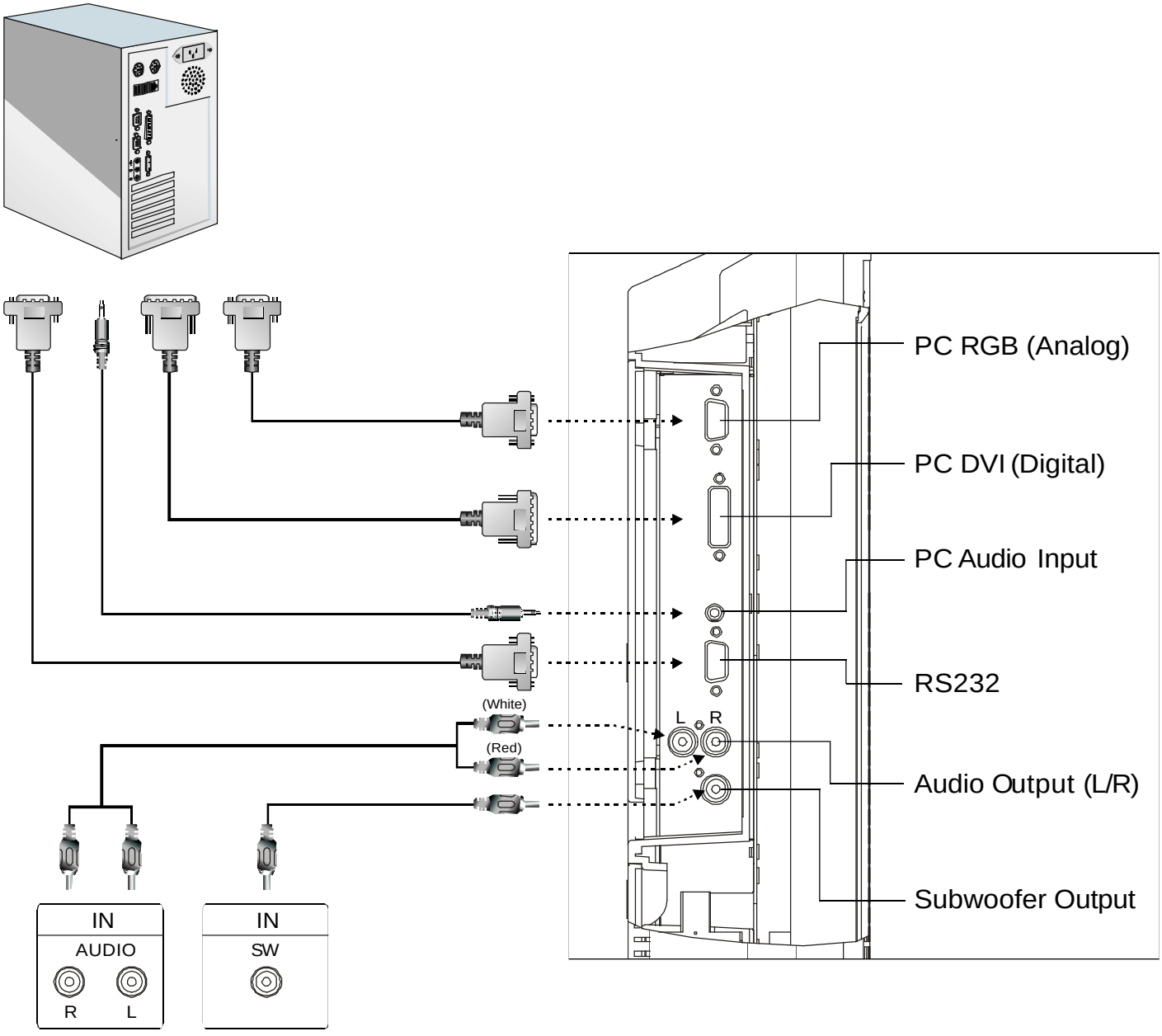
The VGA input is an analog RGB interface with separate H & V sync signals. VGA is more commonly found on computers. Attach the LCD-TV to your computer using the included (blue color-coded) VGA cable. The PC audio cable is not included and must be purchased separately.

For both the DVI and VGA inputs, please remember to **adjust your computer resolution to match the 1280x768 resolution of the 30" LCD-TV for best performance. An additional software driver may be required from your PC graphics chip vendor to obtain wide-format resolution support.**

The audio output is commonly used to connect to an external audio amplifier or surround sound processor.

The subwoofer output is used to attach an external powered subwoofer.

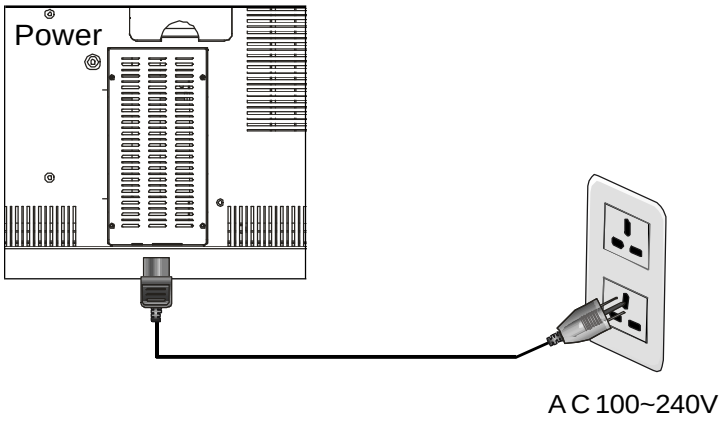
Remember to enable this feature from the Audio Menu of the LCD-TV. When the subwoofer software command is set to On, an internal crossover cuts off the low frequency signal to the built-in speakers. When the subwoofer software command is set to Off, the built-in speakers will output full range audio.



* Connection jack for subwoofer with built-in amplifier.

Power Connection

Attach the AC power cord to the LCD-TV and plug into an appropriate wall outlet. When the TV is first plugged in, you may have to wait several seconds for the ready indicator to glow red. This is normal.



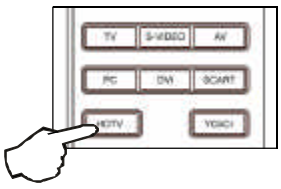
Using The Remote

Carefully open the rear cover on the battery compartment and insert a fresh set of two AAA batteries. Replace the battery cover on the remote.

Turn on the TV by pressing the POWER button.

Adjust the volume using the volume up and down buttons, VOL+ and VOL-.

Select a video source in two ways. You may select a source directly using one of the buttons at the buttom of your remote control: TV, S-VIDEO, AV, PC, DVI, HDTV or YCbCr. You may also scroll through a list of video sources using the SOURCE button located on top of the LCD-TV.



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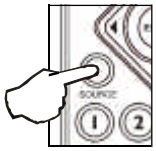
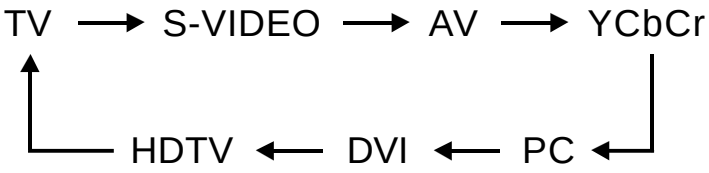




Programming TV Channels

This TV will search out TV channels for you. Use the following instructions to program your own list of preferred channels:

1. Press the MENU button at the center of the remote.
2. Use the arrow keys to switch to the "TV" menu.
3. Choose the type of "source": "antenna" for a rooftop or rabbit ears or "cable" for analog cable television.
4. Use the "auto fine tune" command to automatically search and add all TV channels to your favorite list.
5. Use the "program edit" command to customize and further refine this list by adding and removing individual channels.

You can now watch TV. Change channels by pressing the channel up and down buttons CH▲ and CH▼. Direct access to individual channels can be entered using 1, 2 or 3 digits. To speed direct access, you may optionally use the ENTER key to complete the entry.

Enjoying Wide-Format Movies

As NTSC transitions to HDTV, you may experience a variety of content presented in different aspect ratios. This LCD-TV can scale the incoming video while maintaining the original aspect ratio or stretch the video to use the entire screen.

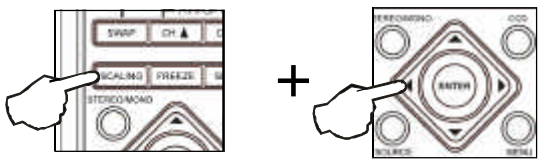
Use the SCALING button on the remote control to switch the aspect ratio as indicated here:

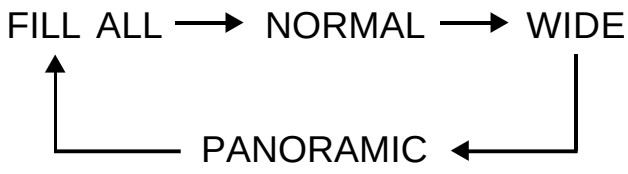
Use **FILL ALL** to stretch programs to occupy more of the screen. Use **FILL ALL** to view wide format (anamorphic) DVD movies. In particular, look for DVD movies that are labeled: **"Anamorphic Widescreen"** or **"Enhanced for 16:9 TV"** to obtain better performance.

Use **NORMAL** to maintain the correct original aspect ratio for most videotape, broadcast television, cable, satellite, HDTV and PC content. The unused portions on the left and right or top and bottom edges of the screen will appear black.
Note: Plasma users are often advised to use FILL ALL to stretch all content to the edges of the screen in order to reduce burn-in. This LCD-TV has no such problem with burn-in.

Use **WIDE** to expand letterbox content to occupy more of the screen. Occasionally, you may find a TV program or older DVD movie that is actually presented as letterbox format within an NTSC signal.
Use this mode to zoom the image up to full screen. The unused portions on the top and bottom of the screen will appear black.
Note: In WIDE mode, non-letterbox content will enlarge beyond the boundaries of the screen. Some portions of the video will not be visible above and below the screen. This may include OSD information from you DVD player, cable decoder or satellite receiver. To see the entire screen, switch to a different SCALING mode.

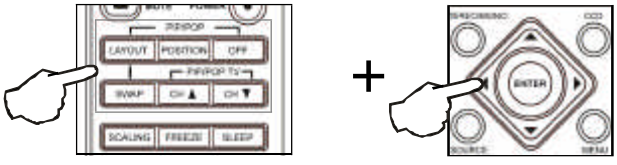
Use **PANORAMIC** to expand NORMAL 4:3 aspect ratio content horizontally using a creative non-linear formula. Objects in the middle maintain the original aspect ratio and only the two sides are expanded.
Experiment with these SCALING setting to determine your personal preferences.





Picture-in-Picture

For Picture-in-Picture (PIP) configurations that have two images, use the left and right arrow keys to switch the audio between the two video sources.
For all PIP configurations, use the up and down arrow keys to select a particular window. You can now use the numeric keys to directly enter the channel for that window. The PIP CH▲ and CH▼ buttons will operate on child windows only. The regular CH▲ and CH▼ buttons are always for the main window source.



Reference Guide

Use this section of the user manual to learn about individual features and functions of this LCD-TV. Learn the purpose of each connector on the back panel. Learn to use each control button on the LCD-TV and remote control. Learn how to use the software features that appear in a menu displayed on-screen.

Connector Descriptions

There are 4 sets of color-coded connectors on the rear of the LCD-TV: Power; PC inputs and audio outputs; video inputs; and antenna input. The power and antenna inputs are located along the lower rear-edge of the LCD-TV. The PC and video connections are located behind two covers on the rear of the LCD-TV.

Antenna input Connector	Color Code	Description
Tuner Input	Silver	75ohm coaxial cable with F-type connector. Attach your TV antenna or analog cable service here.

PC inputs & audio output Connectors	Color Code	Description
PC DVI Input	White	Use this micro-cross input for better performance from a personal computer. An appropriate DVI-D cable is required.
PC RGB (analog)	Blue	Use the included VGA cable to use this LCD-TV as a personal computer monitor.
PC Audio Input	Green	Use this miniature stereo input to attach to your computer audio output.
Audio Output	White, Red	Use these 2 RCA jacks to provide audio to an external amplifier or surround sound decoder.
Subwoofer Output	White, Red	Use these 2 RCA jacks to provide audio to an external powered subwoofer.

Video Connectors	Color Code	Description
HDTV Input (480p, 1080i, 720p only) Y Pb Pr Right audio Left audio	 Green Blue Red Red White	5 RCA jacks. Use this set of component video connectors to attach a high-definition HDTV receiver that can output 480p, 1080i or 720p format. May also be used to attach a progressive scan DVD player. **Note that 480i is not supported on this connector.**
Component Input **(480i only)** Y Cb Cr Right audio Left audio	 Green Blue Red Red White	5 RCA jacks. Use this set of component video connectors to attach a DVD player that is set to output 480i format.
S-Video Input Right audio Left audio	Black Red White	1 DIN, 2 RCA jacks. S-Video is superior to Composite Video but not as good as Component or RGB video.
Video Input Right audio Left audio	Yellow Red White	3 RCA jacks. Use the included composite video cable to attach a popular device such as a VCR or game console.

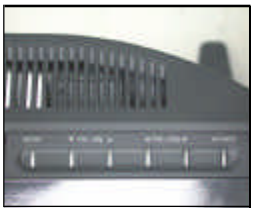
Power Connector	Color Code	Description
Power Input	Black	Use the include power cord to attach to an appropriate AC wall outlet. 100-240VAC, 50-60Hz, 2.4A

Push-Button Control Descriptions

The power button is located separately on the front lower right of the display.

Button	Description
POWER	Use this button to switch the LCD-TV between on and standby modes. The power indicator will glow green when the power is on. The power indicator will glow red when the LCD-TV is in standby. The power indicator will not glow if the power cord is unplugged.

The MENU, CHANNEL, VOLUME and SOURCE buttons are conveniently located on the top of the LCD-TV.



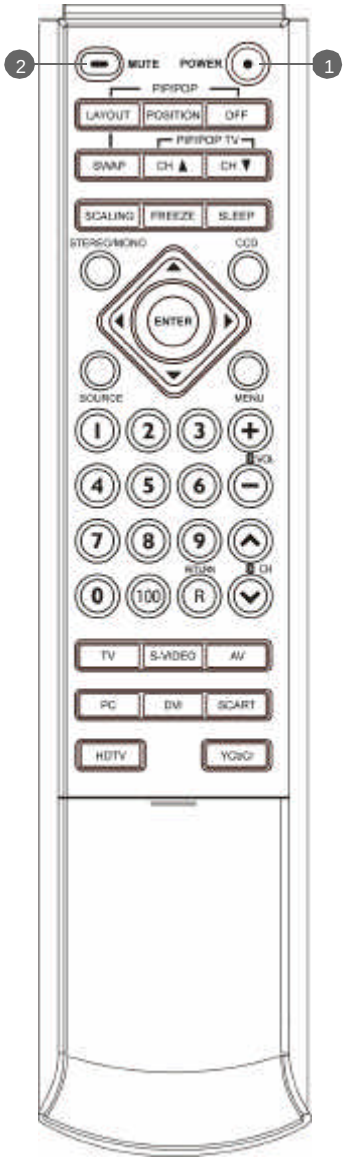
Button	Description
MENU	Use this button to display and adjust the software-controlled features of this LCD-TV. Use this button with the 4 arrow keys (channel and volume adjustments) to traverse the menu options.
CHANNEL FUNCTION ▲ ▼	Use these two buttons to switch between preprogrammed channels. When used with the MENU button, use these to switch between functions to adjust.
VOLUME ADJUST ◄ ►	Use these two buttons to make the sound softer and louder. When used with the MENU button, use these to adjust the particular value of a function.
SOURCE	Use this button to change between video input signals. Press the SOURCE button repeatedly to scroll through the following list of inputs: AV, YCbCr, PC, DVI, HDTV, TV, and S-Video. (Direct access to a particular source is available from the remote control.)

Remote Control Description

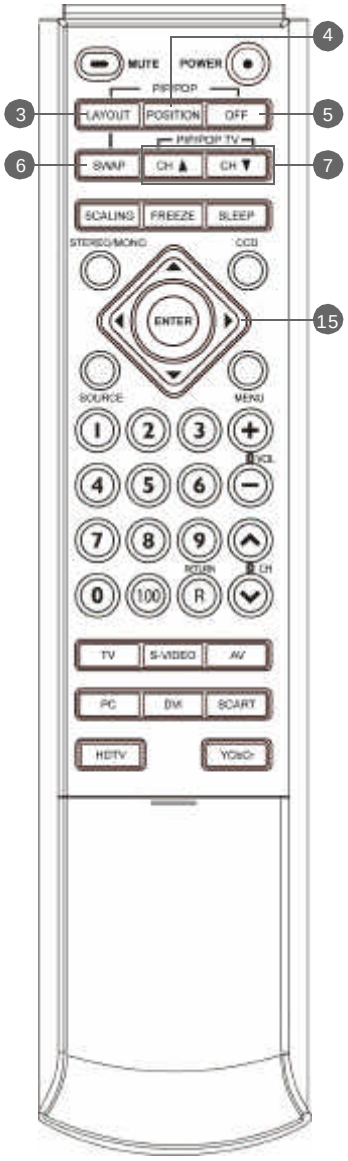
The remote control uses 2 AAA (1.5VDC) batteries. The buttons are grouped in 4 categories:

- Power & Mute Buttons
- Picture-in-Picture Buttons
- Audio & Video Adjustment Buttons
- Volume & Channel Control Buttons

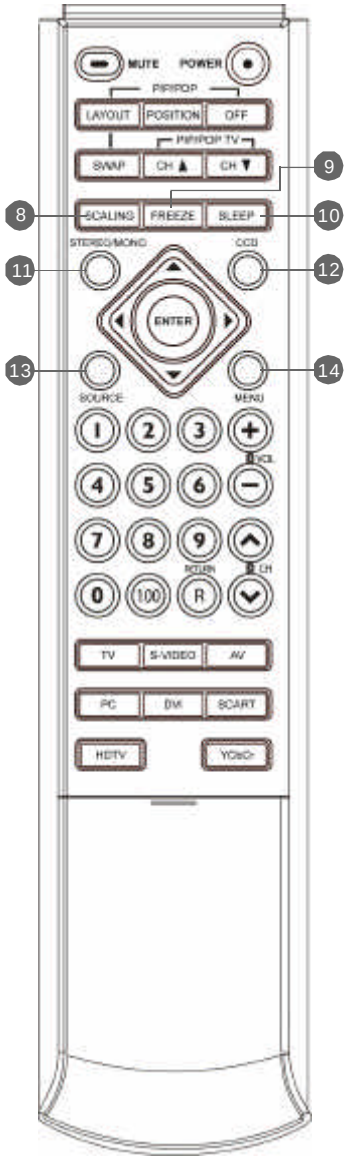
The index number corresponds to the callout number for each button depicted in the illustration.



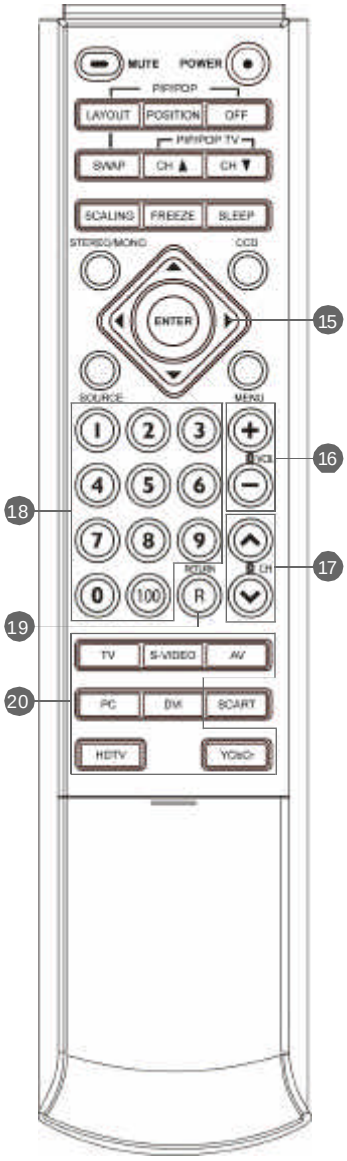
Index	Power & Mute Buttons	Description
1	POWER	Use this button to switch the LCD-TV between on and standby modes. The power indicator will glow green when the power is on. The power indicator will glow red when the LCD-TV is in standby. The power indicator will not glow if the power cord is unplugged.
2	MUTE	Use this button to toggle audio on and off.



Index	Picture-in-Picture Buttons	Description
3 15	LAYOUT ▲ ▼ ◄ ►	Use this button to activate and adjust Picture-in-Picture features in conjunction with POSITION, OFF, SWAP, and CH ▲▼. Use the four arrow keys (▲ ▼ ◄ ►) to change the focus for audio and direct channel changes. (See also Picture-in-Picture Description.)
4	POSITION	Use this to move the position of the child video window.
5	OFF	Use this to remove the child window and turn off Picture-in-Picture.
6	SWAP	Use this to exchange the two PIP video sources.
7	CH ▲ ▼	Use these two buttons to change the child windows video source.



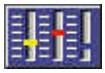
Index	Audio & Video Adjustment Buttons	Description
8	SCALING	Use this button to adjust aspect ratio and to fill the screen. Use NORMAL for HD content. Use NORMAL for PC content. Use NORMAL for 4:3 content. Use WIDE for letterboxed content. Use FILL ALL for anamorphic DVD content.
9	FREEZE	Use this button to hold a particular image on screen. This may be useful in making fine color adjustments.
10	SLEEP	The SLEEP feature is used to automatically shut off this LCD-TV after a preset period of time has passed. Press the SLEEP button repeatedly to select 0, 30, 60, 90 or 120 minutes. Selecting 0 turns the SLEEP feature off.
11	STEREO MONO	Use this button with the two arrow buttons to select among stereo, mono and the secondary audio program. (SAP).
12	CCD	Use this button to turn on and off closed caption display.
13	SOURCE	Use this button to scroll through the video input sources: TV, AV, S-VIDEO, HDTV, YCbCr, and VGA.
14	MENU	Press this button to activate the OSD menu. To exit, press the button again.



Index	Volume & Channel Control Buttons	Description
15	ENTER ▲ ▼ ◄ ►	Press these buttons to navigate through the options and confirm your choice.
16	VOL+-	Use VOL+ and VOL- keys to adjust the audio louder and quieter.
17	CH ▲ ▼	Use the CH▲ and CH▼ keys to surf forwards and backwards between pre-programmed TV channels.
18	0-9, 100	Press two digits for channels 01 through 99. Press 100 followed by two digits for channels 100 or greater.
19	R (RETURN)	Use the R button to see the previous channel.
20	TV, S-VIDEO, AV, PC, DVI HDTV, YCbCr	Use these buttons to switch directly to a video source.

Menu Items

1. User may select the most suitable mode by pressing the source buttons (TV, S-VIDEO, AV, PC, DVI, SCART, HDTV, YCbCr) on the remote control. After detecting the source, the LCD will show the selected system mode on the right bottom of the screen.
2. After selecting the system mode, user may execute the following functions by pressing the MENU button:

	picture Adjusts the picture settings.
	advance Provides more display modes and functions according to the type of program.
	audio Provides more audio options. You may also customize the audio settings of the LCD monitor.
	TV Sets your favorite TV channels. Automatic programming is available in multiple systems and input signal sources.
	parent (Applicable in USA only) Restricts access to some channels according to the type of program.
	setting Provides other options such as automatic power-off time, language, and reset.

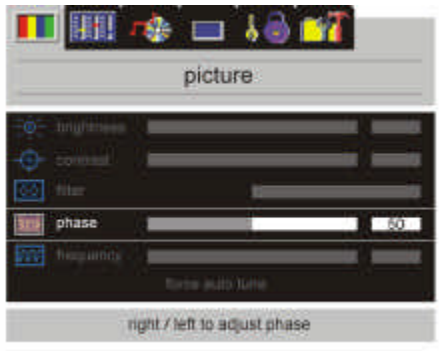
	Option	Range	Mode
Picture	brightness	0~100	AV/Scart/TV/S-Video/YCbCr/HDTV/PC/DVI
	contrast	0~100	AV/Scart/TV/S-Video/YCbCr/HDTV/PC/DVI
	color	0~100	AV/Scart/TV/S-Video/YCbCr/HDTV
	tint	0~100	AV/Scart/TV/S-Video/YCbCr/HDTV
	sharpness	0~100	AV/Scart/TV/S-Video/YCbCr
	filter	sharpest/sharp/normal/soft/softest	HDTV/PC/DVI
	phase	0~100	HDTV/PC
	frequency	0~100	PC
	force autotune		PC
Advance	WindowLayout	full screen/pip/split screen/pop3/ pop12	AV/Scart/TV/S-Video/YCbCr/HDTV/PC/DVI
	pippposition	position 1/2/3/4/5	AV/Scart/TV/S-Video/YCbCr/HDTV/PC/DVI
	pipsize	30~75	AV/Scart/TV/S-Video/YCbCr/HDTV/PC/DVI
	gamma	liner/hdtv/video	AV/Scart/TV/S-Video/YCbCr/HDTV/PC/DVI
	colortemp	warm/normal/cold	AV/Scart/TV/S-Video/YCbCr/HDTV/PC/DVI
	imagesize	fillall/normal/wide/panoramic	AV/Scart/TV/S-Video/YCbCr/HDTV/PC/DVI
	h-position	0~100	AV/Scart/TV/S-Video/YCbCr/HDTV/PC
	v-position	0~100	AV/Scart/TV/S-Video/YCbCr/HDTV/PC
Audio	channel	stereo/sap 1/sap2/mono	TV
	volume	0~100	AV/Scart/TV/S-Video/YCbCr/HDTV/PC/DVI
	treble	0~100	AV/Scart/TV/S-Video/YCbCr/HDTV/PC/DVI
	bass	0~100	AV/Scart/TV/S-Video/YCbCr/HDTV/PC/DVI
	balance	0~100	AV/Scart/TV/S-Video/YCbCr/HDTV/PC/DVI
	subwoofer	on/off	AV/Scart/TV/S-Video/YCbCr/HDTV/PC/DVI
	simulativesurround	on/off	AV/Scart/TV/S-Video/YCbCr/HDTV/PC/DVI
TV	source	antenna/cable	TV
	programedit	<right> toenable (NTSCCH1~125, PALCH1~99)	TV
	autofinetune	<right> toenable (autoscan)	TV
Parent	change		AV/Scart/TV/S-Video/YCbCr(Default: HDTV/PC/DVI)
	norating	allow/block	AV/Scart/TV/S-Video/YCbCr(Default: HDTV/PC/DVI)
	rating set	off/child/youth/Y.adult/user	
	tvchannelblocking	Y/Y7/G/PG/14/MA/FV/D/L/S/V	AV/Scart/TV/S-Video/YCbCr(Default: HDTV/PC/DVI)
	movie b locking	G/PG/PG-13/R/NC-17/X/NR	AV/Scart/TV/S-Video/YCbCr(Default: HDTV/PC/DVI)
Setting	language	English/French/Spanish	AV/Scart/TV/S-Video/YCbCr/HDTV/PC/DVI
	osd timeout	5/15/60 second	AV/Scart/TV/S-Video/YCbCr/HDTV/PC/DVI
	factoryreset	<right> t o activate	AV/Scart/TV/S-Video/YCbCr/HDTV/PC/DVI

* The OSD menu varies withthe modes and regions.

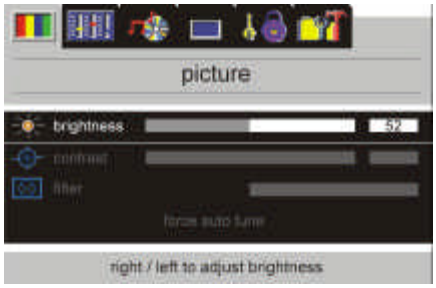
Picture

(For AV/SCART/S-VIDEO/ YCbCr/TV Mode)

(For HDTV)



(For PC)

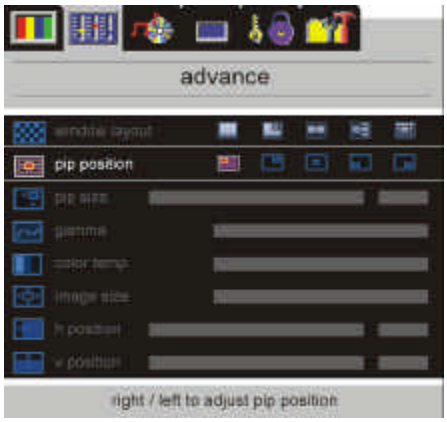


(For DVI)

1. To call the main menu, press the MENU button on the remote control.
2. Navigate through the Picture options by using the ◂ or ▸ button.
3. To select the option you want to adjust, press the ▴ ▾ button on the remotecontrol.
4. To enter the submenu and adjust the settings wherein, press the ◂ ▸ button.
5. To return to the previous menu, press the ENTER button. To exit, press the MENU button.

Submenu	Description
	Brightness Press the ◂ or ▸ buttontoincreaseor reduce brightness.
	Contrast Pressthe ◂ or ▸ button to increase or reducecontrast.
	Color Press the ◂ or ▸ button to increase or reducesaturation.
	Tint Press the ◂ or ▸ button to make the picture morereddishor greenish.
	Sharpness Press the ◂ or ▸ button to adjust the sharpness of the picture.
	Filter Press the ◂ or ▸ button to adjust the sharpness of noise display.
	Phase Press the ◂ or ▸ button to adjust phase.
	Frequency Press the ◂ or ▸ button to adjust frequency.
	Force AutoTune The LCD monitor executes automatic tuning and adjusts to better picture settings in about 10seconds.

Advance



1. To call the main menu, press the MENU button on the remotecontrol.
2. Navigate through theAdvance options by using the ◂ or ▸ button.
3. To select the option you want to adjust, press the ▲ ▼ button on the remote control.
4. To enter the submenu and adjust the settings wherein, press the ◂ ▸ button.
5. To return to the previous menu, press the ENTER button. To exit, press the MENU button.

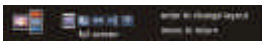
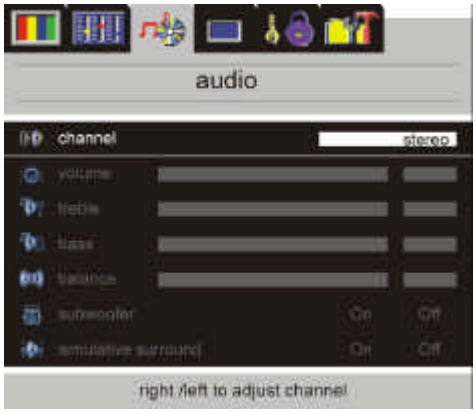
Submenu	Description
	Window Layout Pressthe ◂ or ▸ buttontoswitchto the value desired. Press ENTER toloadthevalue.
	PIPPosition (Make surethatyouareinthePIPmodewhensettingthis option.) Pressthe ◂ or ▸ button to locate the PIPto left top, right top,center,leftbottom, and right bottom.
	PIP Size (Make surethat you are in the PIP modewhen setting this option.) Pressthe ◂ or ▸ buttonto set the size of PIP.
	Gamma Press the ◂ or ▸ button to adjust Gamma.
	Color Temp Pressthe ◂ or ▸ button to adjust color temperature.
	ImageSize Press the ◂ or ▸ button to adjust image size.
	H Position Pressthe ◂ or ▸ button to adjust horizontal position.
	V Position Press the ◂ or ▸ button to adjust vertical position.

Image size options:
Normal:original size(15:9/4:3)
Fillall:proportionally enlarges size tofillscreen.
Wide: enlarges the sizeof 18:9 or 20:9 to 15:9.
Panoramic: fill the screen with the sizeof 4:3 by means ofnon-linearity modification.
◎ If theonscreen text is incomplete, adjust the imagesizeuntil the text is fully displayed.

Audio

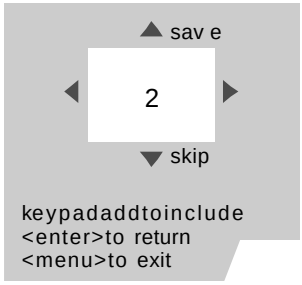


1. To call the main menu, press the MENU button on the remote control.
2. Navigate through the Audio options by using the ◂ or ▸ button.
3. To select the option you want to adjust, press the ▲▼ button on the remote control.
4. To enter the submenu and adjust the settingswherein, press the ◂ ▸ button.
5. To return to the previous menu, press the ENTER button. To exit, press the MENU button.

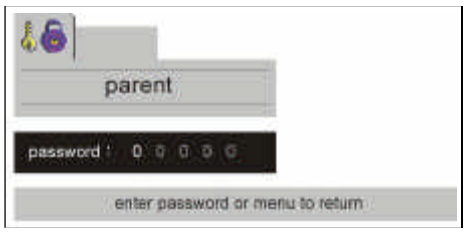
Option	Description	
Channel	Stereo SAP1 SAP2 Mono (TV mode only)	
	Press the ◂ ▸ button tomoveto the option desired.	
	Stereo	Select the Stereomode.
	SAP1	Select the bilingual SAP1 mode.
	SAP2	Select thebilingual SAP2 mode.
	Mono	Select Mono to reduce noise inthe Stereo mode.
	If thereceivedsignal doesnot include a usablesecond language, broadcast willstay in stereomode.	
Volume	Press the ◂ ▸ button to adjust volume.	
Treble	Press the ◂ ▸ button to adjust the volume of treble.	
Bass	Press the ◂ ▸ button to adjust the volume of bass.	
Balance	Press the ◂ ▸ button to adjust the balance of left and rightsound channels.	
Subwoofer	Press the ON or OFF buttonto turnonor offsubwoofer.	
Simulative Surround	Press the ON or OFF button toturn on or off simulative surround.	

TV

1. To call the main menu, press the MENU button on the remote control.
2. Navigate through the TV options by using the ◂ or ▸ button.
3. To select the option you want to adjust, press the ▴ ▾ button on the remote control.
4. To enter the submenu and adjust the settings wherein, press the ◂ ▸ button.
5. To return to the previous menu, press the ENTER button. To exit, press the MENU button.

Option	Description
Source	Antenna Cable Press the ◂ or ▸ buttons to navigate through the options. Cable: select this option if you have access to CATV programs. Antenna: select this option if you use an antenna for TV programs.
Program Edit 	Add/Delete Channel 1. Press the ▸ button to enter the Program Edit menu. 2. Press the ◂ or ▸ button to select a channel. To add or delete the channel, press the ▴ or ▾ button. 3. To return to the previous menu, press the ENTER button. To exit, press the MENU button.
Auto Fine Tune	Press the ▸ button to start Auto Fine Tune. It is necessary to execute Auto Fine Tune when you install the LCD for the first time.

Parent

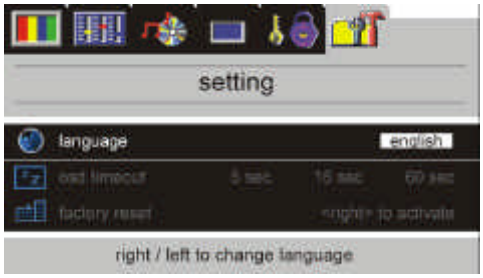


1. To callthemainmenu,press the MENU button on the remote control.
2. Navigate throughthePARENToptions by usingthe ◂ or ▸ button.
3. Press the ▾ button and key in default password to get parent menu.
4. To select the option you want toadjust, press the ▴ ▾ button on the remote control.
5. To enter thesubmenuand adjust the settings wherein, pressthe ◂ ▸ button.

The following tables set forth the options in the Parent mode:

Option	Description		
Change	Pressthe ▸ buttontoinputanewpassword.		
NoRating	To enableordisablethe Parentmode,pressthe ◂ or ▸ Button. allow Viewable block Non-viewable		
RatingSet	RatingSet Pressthe◂ ▸ buttontoselectblockinglevel. off DisabletheParentmode. child Forchildren: TV-Y,TV-G, G youth Forteen-agers: TV-PG,PG Y. adult Foradult: TV-14,PG-13 User User may customize theratingsettingsaccordingtopersonalneeds. <Thefollowingtableshowsthe optionsavailable. Tocustomizethe TVand movieblocking,pressthe ▴ ▾ ◂ ▸ Buttons.>		
	TVchannelblocking	Y Y	suitableforchildrenofallages.
		Y7 Y7	suitableforolderchildren.
		G G	suitableforgeneralaudiences.
		PG PG	parentguidancerequired.
		14 14	parentsshouldbeawareofwhether the program is suitablefor their children.
		MA MA	suitableforadults only.
		FV FV	fantasyviolence
		D D	dialogueindicatingsex
		L L	coarse language
		S S	sex-relatedsituation
		V V	violence
	Movieblocking	G G	general audiences, i ncluding children.
		PG PG	parentguidance.
		PG-13 PG-13	childrenundertheage of13mustbeaccompanied byaparentorguardian.
		R R	restricted. Children under theageof17mustbe accompaniedbyaparentorguardian.
		NC-17 NC-17	childrenundertheage of17notadmitted.
		X X	childrenundertheage of17notadmitted.
		NR NR	norestriction.

Setting



1. To call the main menu, press the MENU button on the remote control.
2. Navigate through the Settings options by using the ◂ or ▸ button.
3. To select the option you want to adjust, press the ▲ ▼ button on the remote control.
4. To enter the submenu and adjust the settings wherein, press the ◂ ▸ button.
5. To return to the previous menu, press the ENTER button. To exit, press the MENU button.

Option	Description
Language	Language: English/French/Spanish
OSD timeout	Press the ◂ ▸ button to select from the following options from the OSD: 5 sec 15 sec 60 seconds
Factory reset	Press the ◂ ▸ button to reset to factory settings.

Appendices

Trouble-Shooting

Q: Why doesn't my video **fill** the whole screen?

A: Some people prefer to maintain the original aspect ratio to avoid seeing abnormally fat or skinny characters. Other people prefer to fill more of the screen. Use the SCALING button on your remote to adjust the image aspect ratio and fill more of the screen.

Q: Why do I have to keep changing the **SCALING** adjustment?

A: Each type of programming content may be different. Most NTSC TV programs and videotapes are 4:3 aspect ratio. DVD movies are available in several formats and can be adjusted accordingly. HD content is typically wide fviewed using the NORMAL ormatsetting. Occasionally DVD movies and TV programs are letterboxed and can be zoomed to fill the entire screen using the WIDE setting.

Q: I have no video from my **progressive** DVD player. How do I fix this?

A: You may need to connect the DVD player to another video input. Match the settings on your DVD player to progressive or interlaced output. For progressive output, use the HDTV(YPbPr) input on the LCD-TV. For interlaced output, use the YCbCr input on the LCD-TV.

Q: I have no video from the **HDTV** input. What is wrong?

A: Adjust the settings on your HD receiver to 720p, 1080i or 480p output. On the Sony SAT-HD200, this button is on the front panel and remote. For the Samsung model SIR-TS160, this switch is on the rear panel.

Q: Will a **progressive scan** DVD player provide better video?

A: This LCD-TV includes a progressive scan converter that is comparable to the scan-converter built into progressive scan DVD players.

Q: What are **anamorphic** widescreen DVD movies?

A: There are two common ways of recording wide format movies on a DVD: letterbox and anamorphic. Anamorphic recordings are also commonly labeled "**Enhanced for 16:9 TV's"**. Anamorphic recordings have over 30% more vertical resolution than letterbox format. Use the SCALING button on your remote to adjust the image aspect ratio and fill more of the screen.

Q: Do LCD's have a **burn-in** problem?

A: No. Unlike CRT and plasma TV's, liquid crystal displays (LCD) do not use phosphor and thus have no problems with a still image becoming permanently stored on the screen.

Q: Can I use a **game console** such as Sony Playstation 2, Nintendo Game Cube or Microsoft XBOX with my LCD-TV?

A: Yes. If you intend to use a game console and/or watch standard TV broadcasts over cable, satellite or antenna, an LCD-TV is a necessary and superior choice over widescreen plasma and CRT televisions. The repetitive image from games and unused black filled borders will damage a plasma TV by burning a permanent image into the phosphor.

Q: Will leaving my LCD-TV on cause the image to degrade?

A: No. Unlike plasma TV's, this LCD-TV does not exhibit **aging** over time. The brightness of the image remains the same. Sufficient airflow is important to maintain a cool operating temperature.

Q: I forgot my **parental control password**. How do I reset the parental control?

A: Enter 00000 as the password.

Q: I have video, but no audio. What's up?

A: Adjust the volume up, turn off the mute button, and confirm the audio cables for this video source properly are connected.

Q: I have audio, but no video. What's up?

A: Match the video output format (720p, 1080i, 480p, 480i) of your video source to the appropriate input connector on the LCD-TV.

Q: I am using the component video input. Why are the colors all wrong?

A: Confirm the Cb and Cr cables are not switched by matching the color codes on the cable to the connectors.

Q: My cable TV reception is not very clear. Why is this?

A: Many homes split a signal from their antenna or cable many times. The number of splitters and the quality of the connectors on the 75ohm cable will visibly affect TV reception. Computers, microwave ovens and other electronic devices emit electronic noise. Identify the interfering device by shutting it off and try relocating the interfering device away from your LCD-TV.

Q: My computer images appear stretched. How do I fix this?

A: Adjust the display properties of your PC to 1280x768. (You may need to download a 1280x768 driver.)

Q: The text on my PC is too small. How do I make it larger?

A: Adjust the font size using the large system font (125%) found in your PC's Display Properties Settings under the Advanced button.

Q: The audio sounds "thin" and is missing bass sounds.

A: Adjust the audio bass and treble settings from the audio menu. Be sure to set the subwoofer value to off when there is no subwoofer.

Q: Changing channels using the 0-9 numbers is a little slow. How can speed this up?

A: Press enter after entering the channel. The software is designed to accept 1, 2 or 3 digit channel numbers.

Specifications

Active Range	Refresh Rate	H	V	Dot Clock MHz	Pol.		Horizontal				Vertical			
					H	V	Sync Width	Back Porch	Front Porch	Total	Sync Width	Back Porch	Front Porch	Total
640 x 350	70	31.5	70	25.175	N	N	96	48	16	800	2	60	37	449
640 x 480 VGA	60	31.469	59.940	25.175	N	N	96	48	16	800	2	33	10	525
	72	37.861	72.809	31.5	N	N	40	128	24	832	3	28	9	520
	75	37.5	75	31.5	N	N	64	120	16	840	3	16	1	500
	85	43.269	85.008	36	N	N	56	80	56	832	3	25	1	509
720 x 400	70	31.46	70.08	28.32	N	P	108	54	18	900	2	35	12	449
800 x 600 SVGA	56	35.156	56.250	36	P	P	72	128	24	1024	2	22	1	625
	60	37.879	60.317	40	P	P	128	88	40	1056	4	23	1	628
	72	48.077	72.188	50	P	P	120	64	56	1040	6	23	37	666
	75	46.875	75	49.5	P	P	80	160	16	1056	3	21	1	625
	85	53.674	85.061	56.25	P	P	64	152	32	1048	3	27	1	631
1024 x 768 XGA	60	48.363	60.004	65	N	N	136	160	24	1344	6	29	3	806
	70	56.476	70.069	75	N	N	136	144	24	1328	6	29	3	806
	75	60.023	75.029	78.75	P	P	96	176	16	1312	3	28	1	800
	85	68.677	84.997	94.5	P	P	96	208	48	1376	3	36	1	808
1280 x 1024	60	63.981	60.020	108	P	P	112	248	48	1688	3	38	1	1066

Specifications

Displaypanel	Screen Size	643.2(H) X 385.92(V)mm(diagonal29.54inches)
	Aspect Ratio	15:9WIDE
	Pixel Pitch	0.1675(H) X R.G.B. X 0.5025(V)mm
	NumberofPixels	1280(H)X R.G.B. X 768(V)
	Luminance	500cd/m^2(Typical)
	Contrast	500:1(Typical)
	ResponseTime	16ms
	Viewing Angle	Typical 170Degree(Horizontal/Vertical)
SignalsInput/out	* Video in	RCAJack X 1
	* Scart	RGB+Audio/Composite+Audio(Europeregion)
	* S-Video in	Y/C X1
	* HDTV in	YPbPrX1(RCAJack)
	* Component Video in	YCbCrX1(RCAJack)
	* Tunerin	NTSC/PAL/SECAM(OPTIONAL)
	Audio in	HeadphoneX1(PC)
		* RCAJack(R+L)X 4
	RGB in	D-sub15pin3rowtype
	DVIin	D-sub24pin3rowtype
	RS232 in	D-sub9pin2rowtype
	Audioout	RCAJack(R+L)X1 / SubwooferRCA Jack X 1
	POP/PIP	4 Modes
	Display Mode	Normal,FillAll, Wide,Panorama
Compatibility	Color system	NTSC/PAL/SECAM
	Videosystem	NTSC/PAL/SECAM
	PC/Mac	VGA/SVGA/XGA/SXGA
	HDTVscanning format	1080i,720p,480p
Audio Output	Built-in speaker	8w+8w(Stereo)
	Subwoofer	RCAJack X 1
Regulation	Safety/ EMC	UL/CUL, VCCI, CB,CE,FCCClassB
	Accessories	RGBCable / Power Cable / RemoteController / Batteries / User'sManual/WarrantyCard
		* AVCable
Other	Package Size	105X37X 65cm
	Net Weight/ GrossWeight	19.0kg/26.5kg
	PowerSource	AC Adapter(Accessory):100-240V, 1.8A, 50-60Hz Monitor:12V ⎓,12.5A(MAX)
	Operative temperature	0~40°C

Items with "*"markareoptions.

Wall Mounting

Use a qualified and insured professional installation service to mount your LCD-TV on a wall. Improper mounting can cause this LCD-TV to fall and both be damaged and cause severe damage.

The wall mounting bracket and screws are sold separately and not included with this product. This product conforms to VESA flat panel display mounting interface specification. **Be sure the mounting solution can support more than the weight of the 30" LCD-TV, 19kg (42lb)**.

Please provide the mounting kit and these instructions to the installation professional:

A. Turn off and unplug the LCD-TV. Place your LCD display face down on a soft clean surface paying particular attention not to scratch the LCD surface, speakers or enclosure.

B. Remove the TV stand by unscrewing the 6 screws attaching the base from the LCD-TV as shown in figure B. Save the 6 screws and stand in a safe place.

C. Screw and securely **tighten** the 4 wall hanging screws into the rear of the LCD-TV as shown in figure C.

D. Locate several studs in the wall. Attach the mounting bracket **securely** to multiple studs in the wall. Often one or more wood cleats are required to allow the mounting bracket to be located between studs. Double-check for strength to support more than the weight of the 30" LCD-TV, 19kg (42lb). See figure D.

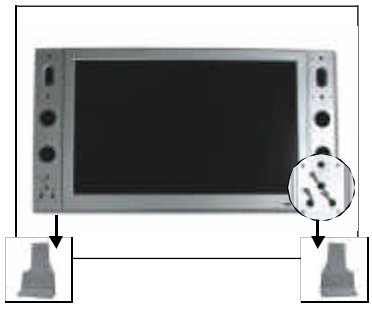
E. Attach any cables to your LCD-TV at this time.

F. Carefully place the LCD-TV on the wall-mounting bracket by matching up the 4 wall hanging screw heads to the corresponding holes in the mounting bracket. See figure F.

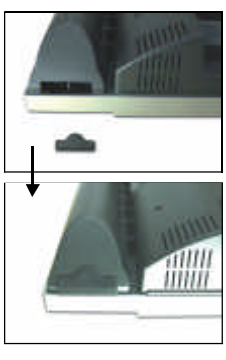
G. Carefully test for strength before releasing the LCD-TV.

A

B

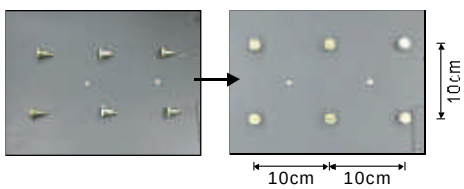


C

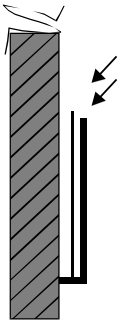


D

E



F



Important Safety Instructions

Read the following instructions carefully. Follow all instructions and heed all warnings to prevent personal injury or damage to the product. Keep these instructions in a safe place for future reference.

- To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture. Do no place your LCD-TV near water. Exposing the apparatus to rain, water, moisture or sunlight can severely damage it.
- Clean only with a soft dry cloth.
- Do not block ventilation openings. Increased temperature may cause fire or device failure.
- Install in accordance with the manufacturer's instructions.
- Do no place the apparatus near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Only use the attachments and accessories that were included with the apparatus.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Refer all servicing to qualified service personnel.
- If you notice smoke or any other odor or noise coming from the apparatus, stop using the product immediately and unplug the power cord. Contact a qualified service technician.
- Keep the apparatus at least four (4) inches away from the wall. Make sure there is sufficient airflow to ventilate the unit.
- Hold the apparatus with two hands at the base of the panel when moving it.

Caution: To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Refer servicing to qualified service personnel.

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Cleanonly with dry cloth.
7) Do not block any ventilation openings. Install inaccordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding type plug.Apolarized plughas twobladeswith one wider than the other.Agrounding type plug has two blades and a third grounding prong. The wide blade or the third prongareprovided for your safety. If the provided plug does not fitinto your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked onorpinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified bythemanufacturer.
12) Use only with thecart,stand,tripod, bracket, or table specifi ed by the manufacturer, or soldwith the apparatus.When a cart is used, use caution when moving the cart/apparatus combination toavoidinjury from tipover.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way,suchaspower-supplycord or plug is damaged, liquid has been spilledorobjects have fallen into the apparatus, theapparatus has been exposed to rain or moisture, does not operate normally, or has beendropped.
15) To Reduce the Risk of Fire or Electric Shock,Do not Expose ThisApparatus To Rain or Moisture.
16) Apparatus shall not be exposed todripping or splashing and no objects filled with liquids,such as vases, shall be placed on the apparatus.
17) TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrow head symbol, within an equilateral triangle, is intended toalert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a riskofelectricshocktopersons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating andmaintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION!
For use only with the following power supplies:Delta/ADP-150BB B;Delta/ADP-180CB B

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Caution: To comply with the limits for an FCC Class B computing device, always use the signal cord and power cord supplied with this unit. The Federal Communications Commission warns that changes or modifications to the unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.